CHEROKEE INTERNATIONAL

"The Powerful Choice"

CCC/CCH 74-75 Series

75 Watt Power Factor Corrected (CCH)

Single & Multiple Output Power Supplies

Features

- Continuous Range 85-264VAC Input (CCC Versions)
- Harmonic Current Corrected in compliance with EN61000-3-2 (CCH Versions)
- Fully compliant with FCC & EN55022 class "B" UL, CUL and TUV
- CE (LVD) marked & CB Test Report
- Recognized to UL1950, Certified to CSA22.2-234, Licensed by TUV to EN60950 & SELV
- Convection cooled specified
- User forced air cooled specified
- Voltage adjustable on V1

75 Watts

Product Specifications

INPUT SPECIFICATIONS

INPUT VOLTAGE RANGE: CCC: Continuous Range 85-264VAC, 47-63 Hz operation. **CCH:** Harmonic Current Correction with Continuous Range 85 to 264 VAC 47-63 Hz operation. Internally fused to 4A, 250VAC, 5MF Type.

POWER FACTOR & HARMONIC CURRENT CORRECTION CCH: Compliant to EN61000-3-2. Power factor is 0.80 typical at full load.

EFFICIENCY TYPICAL: 70% @ Vin - 115VAC.

INRUSH CURRENT (Cold Start): 17A Max. @ 115VAC, 32A Max @ 230VAC.

TURN-ON TIME: All outputs will operate in specified regulation within one second of applying input power.

OUTPUT SPECIFICATIONS (DC)

OPERATING TEMPERATURE & OUTPUT POWER: 100% rated load from 0 to 50°C with Vin 85V min. Derate linearly to 50% at 70° C. The output power of each individual output and the total package power (all outputs combined) must not exceed the specifications indicated, with the voltages measured at the output terminals. See selector guide for limits and "Cooling" below.

REGULATION TOTAL (Line, Load, cross regulation, centering and initial setting combined): Option K (Available on the CCC75 & CCH75): An optional potentiometer is provided on the V2 which provides for 2% total regulation.

OUTPUT LOADING MINIMUM: CCC75 & CCH75: 10% of V1 maximum continuous output current rating is required. CCC75 & CCH75: 10% of V1 maximum continuous output current rating is required or 2 x V2 actual output current whichever is greater.

OUTPUT VOLTAGE ADJUSTMENT: CCC75 & CCH75: V1= ±5%, V2 & V3 fixed at ±4% of nominal voltage. **CCC75 & CCH75 (Option K):** V1 & V2 = ±5%, V3 fixed at ±4% of nominal voltage. **CCC75 & CCH75:** V1 = ±5%, V2 tracks V1 & V3 fixed at ±4% of nominal voltage.

DYNAMIC RESPONSE: A step load change ±25% from max. rated currents 2A/usec max. slew rate will cause a max. deviation of 3%. Outputs will recover to within 3% of nominal in 250 usec max.

PARD/RIPPLE & NOISE: Ripple and noise 1% peak-to-peak max. at 20MHz bandwidth, measured across a 10 µf tantalum capacitor in parallel with a 0.1µF ceramic capacitor at the load using an 18AWG Multi-strand wire cable harness 18 inches long.

HOLD-UP TIME: 16 msec minimum with Vin 115 VAC @ 60 Hz input and output power of 65 watts maximum.

OVERSHOOT & UNDERSHOOT: Following turn-on/off the output voltage overshoot or undershoot shall be within regulation limits specified on the Selector Guide.

TOTAL POWER OVERLOAD LIMITED: Set at 70 watts minimum by sensing the primary input current. Automatic recovery when fault is removed.

CURRENT LIMITING: Limited by the total package power as specified above. Monolithic integrated circuit post regulator characteristics are applicable when used. Automatic recovery when fault is removed.

SHORT CIRCUIT PROTECTION: Each output protected.

OVERVOLTAGE PROTECTION: (V1 & V2 on the CCC75 & CCH75) (V1 on the CCC75 & CCH75) The entire supply shuts down when the output exceeds set trip point, (116% to 130%) of nominal voltage). To reset, cycle input power.

REVERSE VOLTAGE PROTECTION: All outputs protected up to 100% of rated output current.

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ENVIRONMENTAL CONDITIONS

COOLING:

1. Natural Convection Cooled based upon the ambient temperature surrounding (2 inches) the power supply.
2. Requires minimum forced air (20 CFM) per specs . Air In linear feet per minute (LFM) through the power supply (end to end or top through both ends) is required for max. rating.

HUMIDITY: Up to 95%, Non-Condensing

ALTITUDE: Operating:
10,000 ft**.** Output power ratings specified are applicable to 3000 ft. Decrease ambient temperature by 0°C degrees at 3000 ft. to 7°C at 10,000 ft. **Non Operating:** 40,000 ft.

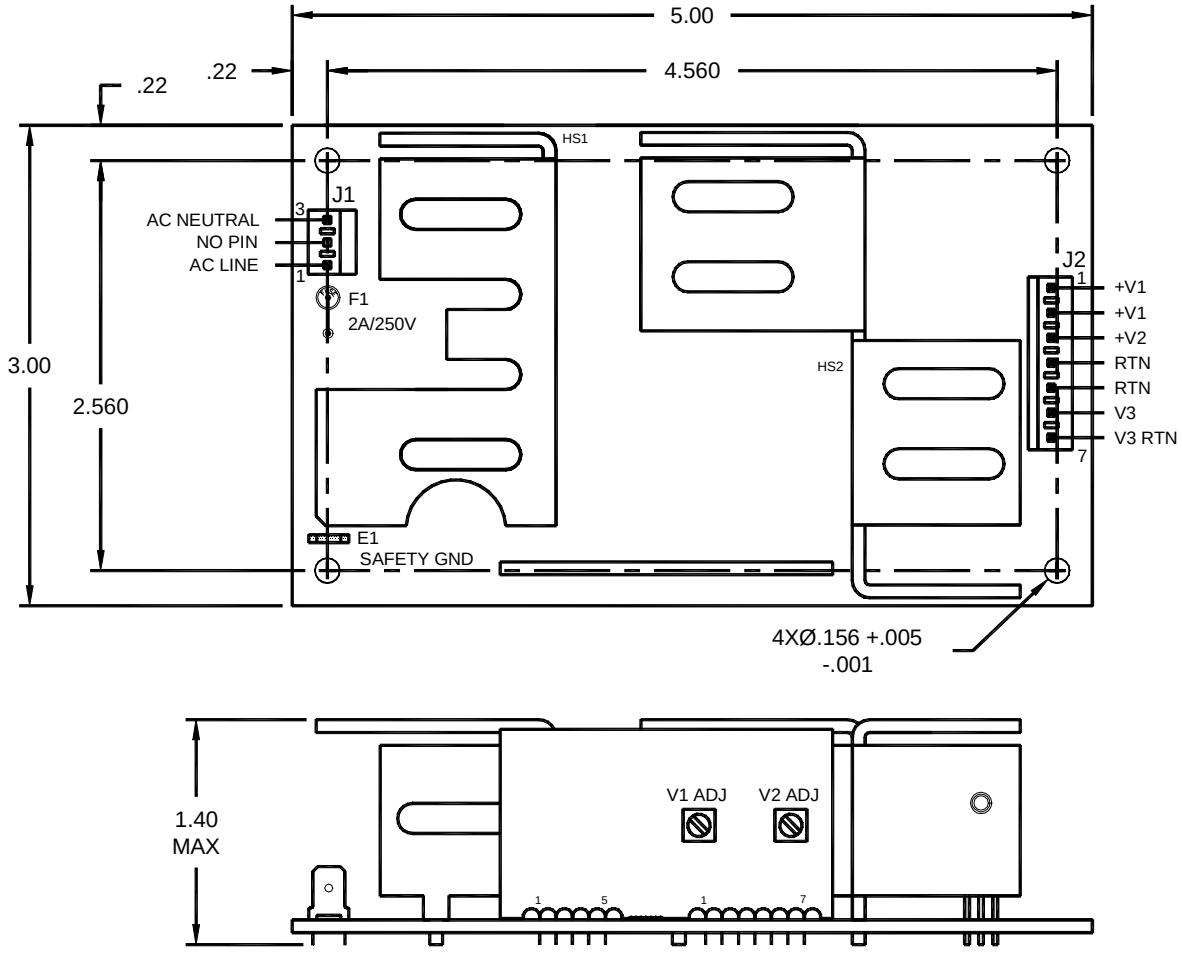
STORAGE TEMPERATURE: -40 to +85°C

SHOCK: MIL-STD810E PER 516.4 Part IV.
Operating half sine, 11 msec at 10 Gs, bottom only; Non-operating, 20G, half sine, 11 msec, 3 axes, 3 impulses.

VIBRATION: Operating, three orthogonal axes, 5 to 500 to 5Hz, 0.03-in. displacement to 1G sine peak. Non-operating, same as above except 0.11-in. displacement to 2G.

Warranty: One Year.

CONN NO.	MFG.	CONN. P/N
J1	AMP	641937-1
J2	AMP	640445-7



CCC74 & 75 (Continuous Range Input) & CCH74 & 75 SERIES Harmonic Current Corrected (PFC)

Model Number	Input Specs.	EMI Level	Max Package Power Cooling: Method 20CFM	Max Package Power Cooling: Method Convection	Main Output V1 Vo	Io Min	Io Max	Io Pk	Reg. +/- %	Aux Output V2 Vo	Io Max	Io Pk	Reg. +/- % Std	Reg. +/- % Opt. K	Aux Output V3 Vo	Io Max	Io Pk	Reg. +/- %
SINGLE OUTPUT MODELS																		
CCC75C1	[C]85-264	B	42	42	**+3.3**	0	12.5	17	2	**NA**					**NA**			
CCH75C1	[H]85-264	B	42	42	**+3.3**	0	12.5	17	2	**NA**					**NA**			
CCC75D1	[C]85-264	B	60	50	**+5**	0	12	14	2	**NA**					**NA**			
CCH75D1	[H]85-264	B	60	50	**+5**	0	12	14	2	**NA**					**NA**			
CCC75F1	[C]85-264	B	75	50	**+12**	0	6.25	8	2	**NA**					**NA**			
CCH75F1	[H]85-264	B	75	50	**+12**	0	6.25	8	2	**NA**					**NA**			
CCC75G1	[C]85-264	B	75	50	**+15**	0	5	7	2	**NA**					**NA**			
CCH75G1	[H]85-264	B	75	50	**+15**	0	5	7	2	**NA**					**NA**			
CCC75H1	[C]85-264	B	75	50	**+24**	0	3.1	4	2	**NA**					**NA**			
CCH75H1	[H]85-264	B	75	50	**+24**	0	3.1	4	2	**NA**					**NA**			
CCC75J1	[C]85-264	B	75	50	**+48**	0	1.5	2	2	**NA**					**NA**			
CCH75J1	[H]85-264	B	75	50	**+48**	0	1.5	2	2	**NA**					**NA**			
DUAL OUTPUT MODELS																		
CCC74C2	[C]85-264	B	42	42	**+3.3**	0.9	9	10	2	**+5.1**	2.5	3.5	5	2	**NA**			
CCH74C2	[H]85-264	B	42	42	**+3.3**	0.9	9	10	2	**+5.1**	2.5	3.5	5	2	**NA**			
CCC74E2	[C]85-264	B	60	42	**+3.3**	0.9	9	10	2	**+12**	2.5	3.5	5	2	**NA**			
CCH74E2	[H]85-264	B	60	42	**+3.3**	0.9	9	10	2	**+12**	2.5	3.5	5	2	**NA**			
CCC74G2	[C]85-264	B	54	42	**+5.1**	0.9	9	10	2	**+3.3**	2.5	3.5	5	2	**NA**			
CCH74G2	[H]85-264	B	54	42	**+5.1**	0.9	9	10	2	**+3.3**	2.5	3.5	5	2	**NA**			
CCC74K2	[C]85-264	B	75	42	**+5.1**	0.9	9	10	2	**+12**	2.5	3.5	5	2	**NA**			
CCH74K2	[H]85-264	B	75	42	**+5.1**	0.9	9	10	2	**+12**	2.5	3.5	5	2	**NA**			
CCC75K2	[C]85-264	B	75	42	**+5.1**	0.9	9	10	5	**+12**	2.5	3.5	5	NA	**NA**			
CCH75K2	[H]85-264	B	75	42	**+5.1**	0.9	9	10	5	**+12**	2.5	3.5	5	NA	**NA**			
CCC74Q2	[C]85-264	B	75	42	**+5.1**	0.9	9	10	2	**+15**	2.5	3.5	5	2	**NA**			
CCH74Q2	[H]85-264	B	75	42	**+5.1**	0.9	9	10	2	**+15**	2.5	3.5	5	2	**NA**			
CCC75Q2	[C]85-264	B	75	50	**+5.1**	0.9	9	10	2	**+15**	2.5	3.5	5	NA	**NA**			
CCH75Q2	[H]85-264	B	75	50	**+5.1**	0.9	9	10	2	**+15**	2.5	3.5	5	NA	**NA**			
CCC75P2	[C]85-264	B	62	55	**+5.1**	0.9	9	10	2	**NA**					**24**	0.7	1.5	5
CCH75P2	[H]85-264	B	62	55	**+5.1**	0.9	9	10	2	**NA**					**24**	0.7	1.5	5
CCC74P2	[C]85-264	B	75	42	**+5.1**	0.9	9	10	2	**+24**	1.25	3	5	NA	**NA**			
CCH74P2	[H]85-264	B	75	42	**+5.1**	0.9	9	10	2	**+24**	1.25	3	5	NA	**NA**			
TRIPLE OUTPUT MODELS																		
CCC74C3	[C]85-264	B	47	42	**+3.3**	0.9	9	10	2	**+5.1**	2.5	3.5	5	2	**5**	1	1.5	5
CCH74C3	[H]85-264	B	47	42	**+3.3**	0.9	9	10	2	**+5.1**	2.5	3.5	5	2	**5**	1	1.5	5
CCC74D3	[C]85-264	B	54	42	**+3.3**	0.9	9	10	2	**+5.1**	2.5	3.5	5	2	**12**	1	1.5	5
CCH74D3	[H]85-264	B	54	42	**+3.3**	0.9	9	10	2	**+5.1**	2.5	3.5	5	2	**12**	1	1.5	5
CCC74F3	[C]85-264	B	70	42	**+3.3**	0.9	9	10	2	**+12**	2.5	3.5	5	2	**12**	1	1.5	5
CCH74F3	[H]85-264	B	70	42	**+3.3**	0.9	9	10	2	**+12**	2.5	3.5	5	2	**12**	1	1.5	5
CCC74G3	[C]85-264	B	60	42	**+5.1**	0.9	9	10	2	**+3.3**	2.5	3.5	5	2	**5**	1	1.5	5
CCH74G3	[H]85-264	B	60	42	**+5.1**	0.9	9	10	2	**+3.3**	2.5	3.5	5	2	**5**	1	1.5	5
CCC74H3	[C]85-264	B	66	42	**+5.1**	0.9	9	10	2	**+3.3**	2.5	3.5	5	2	**12**	1	1.5	5
CCH74H3	[H]85-264	B	66	42	**+5.1**	0.9	9	10	2	**+3.3**	2.5	3.5	5	2	**12**	1	1.5	5
CCC74J3	[C]85-264	B	70	42	**+5.1**	0.9	9	10	2	**+3.3**	2.5	3.5	5	2	**24**	0.7	1.5	5
CCH74J3	[H]85-264	B	70	42	**+5.1**	0.9	9	10	2	**+3.3**	2.5	3.5	5	2	**24**	0.7	1.5	5
CCC74M3	[C]85-264	B	75	42	**+5.1**	0.9	9	10	2	**+12**	2.5	3.5	5	2	**5**	1	1.5	5
CCH74M3	[H]85-264	B	75	42	**+5.1**	0.9	9	10	2	**+12**	2.5	3.5	5	2	**5**	1	1.5	5
CCC74L3	[C]85-264	B	75	42	**+5.1**	0.9	9	10	2	**+24**	1.25	3.5	5	2	**5**	1	1.5	5
CCH74L3	[H]85-264	B	75	42	**+5.1**	0.9	9	10	2	**+24**	1.25	3.5	5	2	**5**	1	1.5	5
CCC74K3	[C]85-264	B	75	42	**+5.1**	0.9	9	10	2	**+12**	2.5	3.5	5	2	**12**	1	1.5	5
CCH74K3	[H]85-264	B	75	42	**+5.1**	0.9	9	10	2	**+12**	2.5	3.5	5	2	**12**	1	1.5	5
CCC75K3	[C]85-264	B	75	50	**+5.1**	0.9	9	10	5	**+12**	2.5	3.5	5	NA	**-12**	1	1.5	5
CCH75K3	[H]85-264	B	75	50	**+5.1**	0.9	9	10	5	**+12**	2.5	3.5	5	NA	**-12**	1	1.5	5
CCC74P3	[C]85-264	B	75	42	**+5.1**	0.9	9	10	2	**+12**	2.5	3.5	5	2	**24**	0.7	1.5	5
CCH74P3	[H]85-264	B	75	42	**+5.1**	0.9	9	10	2	**+12**	2.5	3.5	5	2	**24**	0.7	1.5	5
CCC74Q3	[C]85-264	B	75	42	**+5.1**	0.9	9	10	2	**+15**	2.5	3.5	5	2	**15**	1	1.5	5
CCH74Q3	[H]85-264	B	75	42	**+5.1**	0.9	9	10	2	**+15**	2.5	3.5	5	2	**15**	1	1.5	5
CCC75Q3	[C]85-264	B	75	50	**+5.1**	0.9	9	10	5	**+15**	2.5	3.5	5	NA	**-15**	1	1.5	5
CCH75Q3	[H]85-264	B	75	50	**+5.1**	0.9	9	10	5	**+15**	2.5	3.5	5	NA	**-15**	1	1.5	5

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